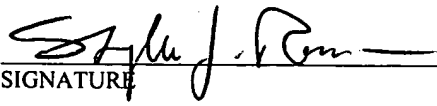


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| FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE<br>(REV 02-2005)   |  | ATTORNEY'S DOCKET NO.<br><b>790086.406USPC</b>   |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A FILING UNDER 35 U.S.C. 371</b>  |  | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><div style="font-size: 1.5em; font-weight: bold; text-align: center;">10/534386</div> |
| INTERNATIONAL APPLICATION NO.<br><b>PCT/JP2003/013579</b>  | INTERNATIONAL FILING DATE<br><b>October 23, 2003</b> | PRIORITY DATE CLAIMED<br><b>November 8, 2002</b>   |
| TITLE OF INVENTION<br><b>EXPANSION AGENTS FOR STEM CELLS</b>   |  |  |
| APPLICANT(S) FOR DO/EO/US<br><b>Hiromitsu NAKAUCHI and Atsushi IWAMA</b>   |  |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |  |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)).           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> |  |  |
| <b>Items 11 to 20 below concern document(s) or information included:</b>   |  |  |
| <ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input type="checkbox"/> A preliminary amendment.</li> <li>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input type="checkbox"/> Other items or information:</li> </ol>   |  |  |

|   |              |   |  |  |          |
|---|--------------|---|--|--|----------|
| U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><b>10/534386</b>   |              | INTERNATIONAL APPLICATION NO.<br>PCT/JP2003/013579                            |  | ATTORNEY'S DOCKET NUMBER<br>790086.406USPC |          |
| The following fees are submitted  |              |   |  |  |          |
| 21. <input checked="" type="checkbox"/> Basic national fee.....   |              |   |  | \$300.00                                   | \$300.00 |
| 22. <input checked="" type="checkbox"/> Examination fee<br>If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4).....  |              |   |  | \$100.00                                   |          |
| All other situations .....  |              |   |  | \$200.00                                   | \$200.00 |
| 23. <input checked="" type="checkbox"/> Search fee<br>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority .....   |              |   |  | \$100.00                                   |          |
| International Search Report prepared and provided to the Office .....   |              |   |  | \$400.00                                   |          |
| All other situations .....  |              |   |  | \$500.00                                   | \$400.00 |
| <b>TOTAL OF 21, 22 AND 23 =</b>   |              |   |  |  | \$900.00 |
| <input checked="" type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. |              |   |  |  |          |
| Total Sheets  | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) |  | RATE                                       |          |
| 249 - 100 = 149   | 149/50 =     | 3   |  | X \$250.00                                 |          |
|   |              |   |  | \$750.00                                   |          |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).  |              |   |  | \$130.00                                   |          |
| Claims  | Number Filed | Number Extra  | Rate   |  |          |
| Total Claims  | - 20 =       |   | x \$ 50.00   | \$ .00                                     |          |
| Independent Claims  | - 3 =        |   | x \$ 200.00  | \$ .00                                     |          |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)   |              |   | + \$360.00   | \$ .00                                     |          |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |              |   |  | \$1780.00                                  |          |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.   |              |   |  | \$890.00                                   |          |
| <b>SUBTOTAL =</b>   |              |   |  | \$890.00                                   |          |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).   |              |   |  | \$ .00                                     |          |
| <b>TOTAL NATIONAL FEE =</b>   |              |   |  | \$890.00                                   |          |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |              |   |  | \$ .00                                     |          |
| <b>TOTAL FEES ENCLOSED =</b>  |              |   |  | \$890.00                                   |          |
|   |              |   |  | Amount to be refunded:                     |          |
|   |              |   |  | Amount to be Charged:                      |          |
| a. <input checked="" type="checkbox"/> A check in the amount of \$890 to cover the above fees is enclosed.  |              |   |  |  |          |
| b. <input type="checkbox"/> Please charge my Deposit Account No. 19-1090 in the amount of \$_____ to cover the above fees. A duplicate copy of this sheet is enclosed.  |              |   |  |  |          |
| c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 19-1090. A duplicate copy of this sheet is enclosed.   |              |   |  |  |          |
| d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.                                 |              |   |  |  |          |
| <b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</b>   |              |   |  |  |          |
| SEND ALL CORRESPONDENCE TO:   |              |   |  |  |          |
| Stephen J. Rosenman, Ph.D.<br>Seed Intellectual Property Law Group PLLC<br>701 5 <sup>th</sup> Avenue, Suite 6300<br>Seattle, WA 98104-7092<br>United States of America<br>(206) 622-4900   |              |   | <br>SIGNATURE<br>Stephen J. Rosenman, Ph.D.<br>NAME<br>43,058<br>REGISTRATION NUMBER |  |          |

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